What is claimed is:

- 1 1. A thermokeratoplastic probe that is connected to an
- 2 electrical power supply, comprising:
- 3 a handle;
- a tip that extends from said handle, said tip having a
- 5 sharp point that can be inserted into a stroma of a cornea.
- 1 2. The probe as recited in claim 1, further comprising
- 2 a stop that is attached to said tip and which limits the
- 3 insertion of said tip into the cornea.
- 1 3. The probe as recited in claim 1, wherein said tip
- 2 has an insertion length no greater than 400 microns.
- 1 4. The probe as recited in claim 1, wherein said tip is
- 2 supported by a spring beam that extends from said handle.
- 5. A thermokeratoplastic probe system, comprising:
- 2 a handle;
- a tip that extends from said handle, said tip having a
- 4 sharp point that can be inserted into a stroma of a cornea;
- 5 a power supply connected to said tip, said power supply
- 6 provides a pulse of current at a power no greater than 0.2
- 7 watts and for a time duration no greater than 1.0 seconds,
- 8 such that the current flows into the cornea through said
- 9 inserted tip to denature the cornea.



- 2 a stop that is attached to said tip and which limits the
- 3 insertion of said tip into the cornea.
- 7. The system as recited in claim 5, wherein said tip
- 2 has an insertion length no greater than 400 microns.
- 1 8. The system as recited in claim 5, wherein said tip
- 2 is supported by a spring beam that extends from said handle.
- 9. A method for denaturing a cornea, comprising the
- 2 steps of:
- a) inserting a tip into a stroma of a cornea;
- 4 b) energizing said tip with electrical current to heat
- 5 and denature the cornea; and,
- 6 c) removing said tip from the cornea.
- 1 10. The method as recited in claim 9, further
- 2 comprising the steps of repeating steps a)-c) a plurality of

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3 times in a pattern about the cornea.